#AIREVOLUTION

Introducing



TADIRAN ΛIROW 3™

TADIRAN



TADIRAN ÂIROW 3[™]

INNOVATIVE TECHNOLOGY That Ensures the Indoor Air is Clean and Safe

Tadiran AIROW is a simple plug and play purification technology that is installed inside any air High Wall conditioning system, it produces **Hydrogen Peroxide** (H2O2) to effectively neutralize pathogens in indoor spaces.



has been proven to eliminate viruses, SARS-CoV-2 surrogate and bacteria at up to 99.994% Tested in FDA-cleared laboratory

¹ TADIRAN AIROW 3 reduced detected Virus MS2 bacteriophage (known as SARS-CoV-2 surrogate) and detected Bacteria Staphylococcus epidermidis aerosol levels by 99.994% within 1 hour (1 cubic meter test chamber).



WHAT IS Hydrogen Peroxide?



Hydrogen Peroxide is a common antiseptic, oxidizing and bleaching agent, known to be a non-selective cleanser that effectively reduces microbial contaminants. Hydrogen Peroxide's properties have made it a popular choice for use in common household products such as toothpaste and even used for sterilization in medical and surgical procedures for more than 100 years.

Hydrogen Peroxide is a **SAFE** , highly effective, nontoxic air disinfectant when used at appropriate levels according to OSHA's2 standard.

Leveraging water (H2O) & Oxygen (O2) molecules naturally present in the air, Tadiran AIROW converts them to <15 ppb of Hydrogen Peroxide (H2O2) spread into the air.

Tadiran AIROW is a **SAFE** and efficient air purification solution which produces very low concentration of Hydrogen Peroxide (> 66 times lower than OSHA's recommendation of 1,000 PPB) that still can achieve > 99.99% reduction of airborne pathogens.

Download Hydrogen Peroxide white paper →



² OSHA STANDERS: The legal airborne permissible exposure limit (PEL) is 1,000 ppb averaged over an 8-hour work shift. Health Guidelines for Hydrogen Peroxide, US Dept. of Labor, Occupational Safety & Health Administration, OSHA - https://www.osha.gov/

WHY USE Hydrogen Peroxide?



Highly effective in neutralizing Viruses, bacteria & molds



Safe to use in any size space



Purifies large spaces & reaches inaccessible areas



Has a long-lasting effect up to 24 hours after the unit is turned off



Doesn't produce any toxic byproducts during the activity

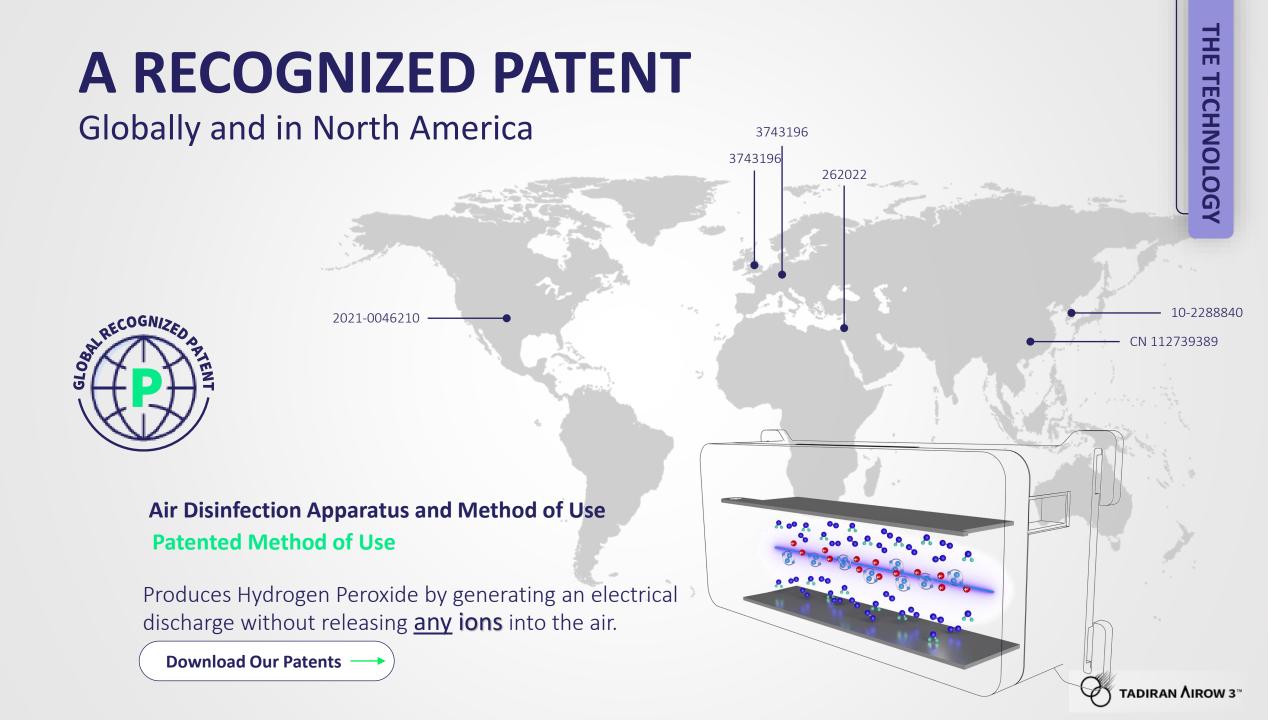


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WHY ARE WE SAFE?



Global Standard

TADIRAN AIROW Produces Hydrogen Peroxide In Amounts Far Below The OSHA Approved Limit

According to OSHA³: "The legal airborne permissible exposure limit (PEL) is 1,000 ppb averaged over an 8-hour work shift."

TADIRAN AIROW creates less then 15 ppb, significantly lowen than the permissible amount.

³ Health Guidelines for Hydrogen Peroxide, US Dept. of Labor, Occupational Safety & Health Administration, OSHA - https://www.osha.gov/



HOW IT WORKS

Take an inside look at the **Tadiran AIROW 3™** Purification Technology:

O2 and H2O are streamed through the electrical discharge zone

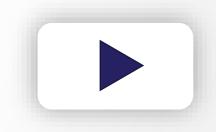
O2 is separated into two Oxygen radicals that combine with the H2O molecules in the airflow – transforming it into Hydrogen Peroxide (H2O2)

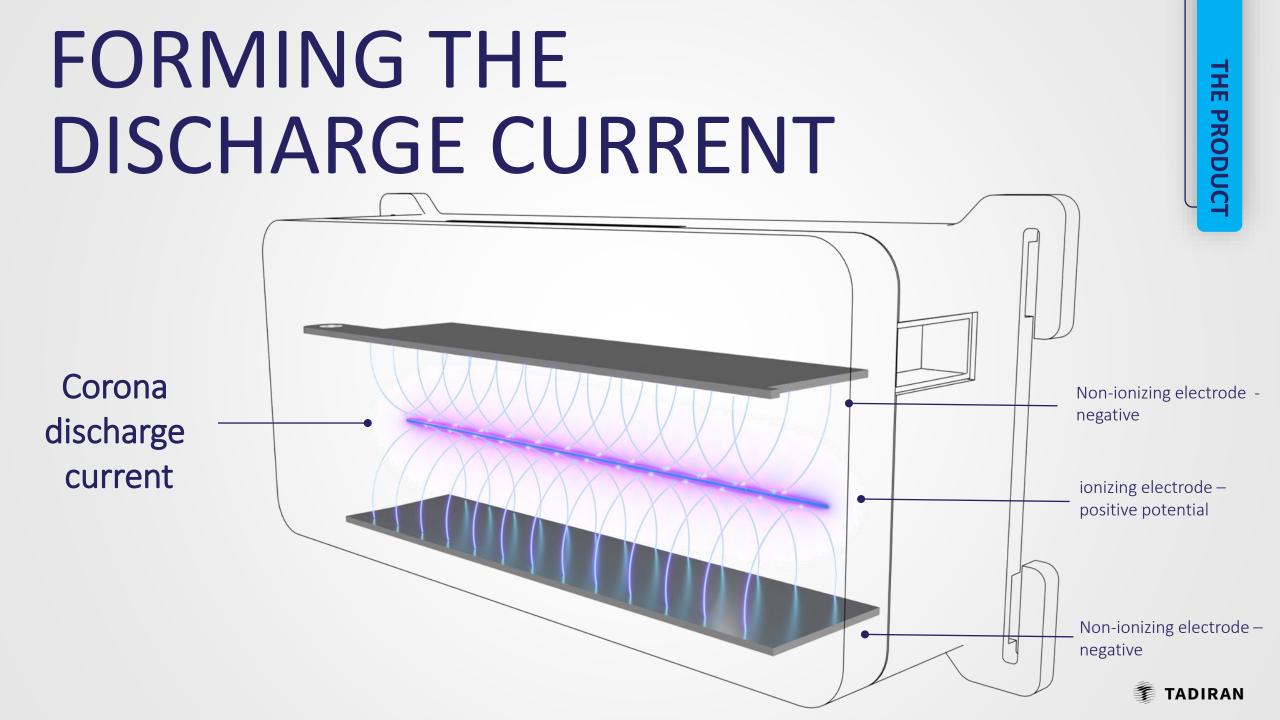


Hydrogen Peroxide (H2O2) is released into the air of the conditioned space



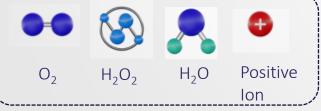
Once Hydrogen Peroxide (H₂O₂) encounters COVID or other viruses, bacteria, viruses or mold it inactivates and oxidized these into harmless byproducts

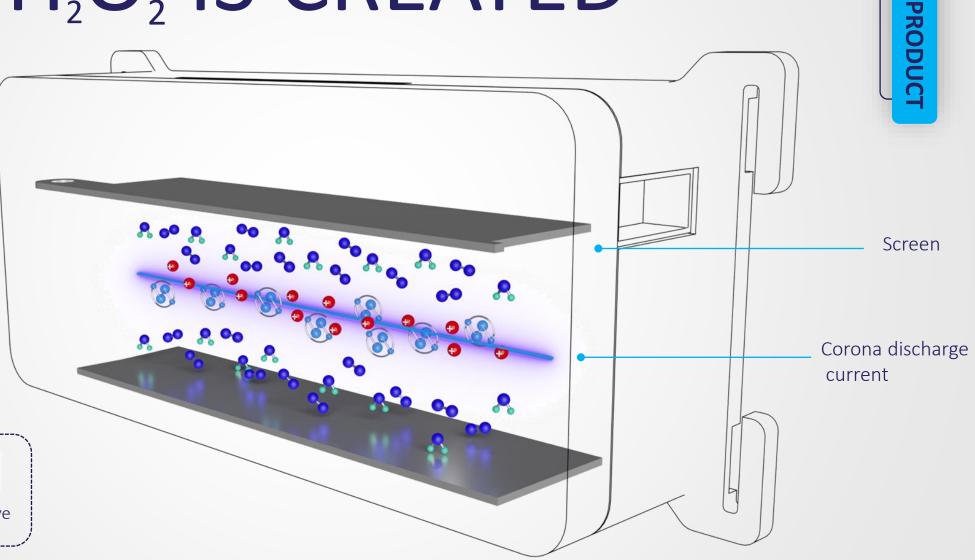




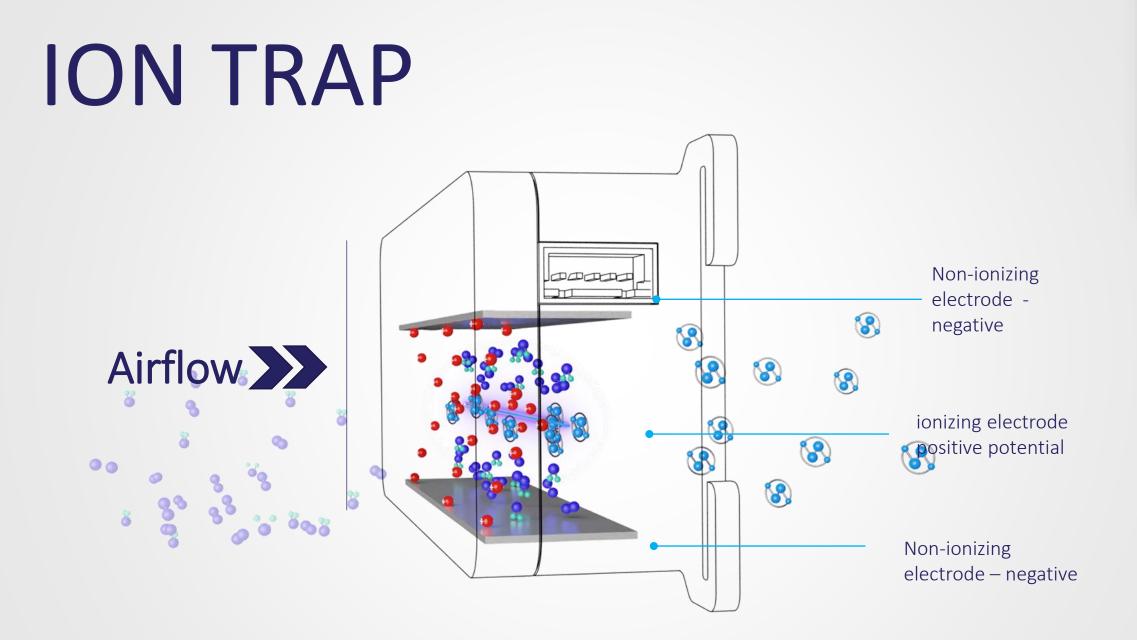
HOW H₂O₂ IS CREATED

O2 is separated into two Oxygen radicals that combine with the H2O molecules in the airflow – transforming it into Hydrogen Peroxide (H2O2)





THE



Positively charged ions are attracted to negatively charged screens

THE PRODUCT

TADIRAN

WHAT IT OFFERS?

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PROD

TADIRAN



TADIRAN ÂIROW 3[™] BENEFITS

Function & Features
Certified & Validated
Proven By Test Results
Live Successful Tests

FUNCTION & FEATURES



Eradicator of Bioaerosols - Eliminates Bacteria and Viruses including Sars-Cov-2 surrogate by up to 99.994%



Built-in monitoring circuit - for operation indication/BMS integration capability



Zero Maintenance



Long-lasting effect – continues to purify the air up to 24 hours after the unit is turned off



Plug & Play - easy to install in any ducted AC system⁴



Vast Functionality – applicable anywhere: from residential, to schools, new construction, hospitality, and senior living



Low Electricity Usage - consumption of 1W



Low TCO- zero expenses on maintenance and part replacement







THE SOLUTION THAT IS BOTH EFFICTIVE AND SAFE

SAFE

- Low levels of Hydrogen Peroxide
- Ozone Free
- NO IONS \checkmark

EFFICIENT

- Eliminates testes pathogens by up \checkmark to 99.994%
- Proactive and long-lasting effect
- Covers large spaces & treats \bigcirc inaccessible spaces

ECONOMICAL

- Value for money
- Lower total cost of ownership
- Zero Maintenance
- Low energy usage



Zero Maintenance



H202

Proactive Technology

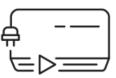
< 5 ppb tested

Highly Effective Against Biological Pathogens

Low Energy Usage









Global Patents

Plug & Play

VOC Emission safe



ALSO AVAILABLE

TADIRAN AIROW 1 FOR DUCTED AC





Join our #AIROWEVOLUTION www.airowluftreiniger.de

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